CMS Simulation (LHE) 13 TeV 0.04 Fraction of events / 0.1 $pp \rightarrow h \rightarrow 2n_{_{1}} \rightarrow 2n_{_{D}} + 2~\gamma_{_{D}} \rightarrow 2n_{_{D}} + 4\mu$ $m_h^{} = 125 \; \text{GeV}, \; m_{_{D_1}^{}}^{} = 10 \; \text{GeV}, \; m_{_{D_2}^{}}^{} = 1 \; \text{GeV}$ 0.035 $m_{\gamma_D} = 0.25 \text{ GeV}, c\tau_{\gamma_D} = 0.5 \text{ mm}$ 1st n_D (leading p_T) 0.03 $-2nd n_D$ 0.025 0.02 0.015 0.01 0.005 -3 3 -5